

B80

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 63-267296
(43)Date of publication of application : 04.11.1988

(51)Int.Cl. C12P 21/02
A61K 37/02
A61K 37/02
A61K 45/02
C07K 13/00
C07K 15/26
C12N 15/00
//(C12P 21/02
C12R 1:19)
(C12P 21/02
C12R 1:91)

(21)Application number : 62-056676

(71)Applicant : **TORAY IND INC**

(22) Date of filing : 13.03.1987

(72)Inventor : **TANAKA TOSHIAKI**
KONO HAJIME
SAWADA RITSUKO

(30)Priority

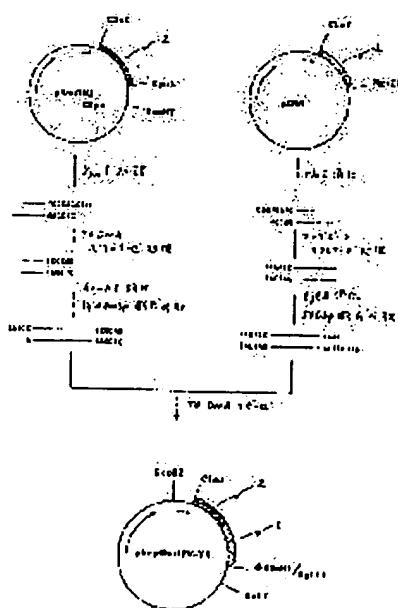
JP

(54) INTERFERON CONJUGATE AND PRODUCTION THEREOF

(57) Abstract:

PURPOSE: To readily obtain an interferon (IFN) conjugate, having strong activity and useful as an antiviral agent, antitumor agent, etc., by cultivating a transformant transformed by a specific recombinant DNA.

CONSTITUTION: A β -type IFN is linked to a γ -type IFN by genetic manipulation to provide an IFN conjugate (A). A base sequence for coding the component (A) is subsequently synthesized by a DNA synthetic method, etc., and a promoter sequence (e.g. trp promoter) for starting transcription, SD sequence for translation and ATG codon are imparted to the front part of the base sequence to afford a recombinant DNA (B), which is then linked to a plasmid pBR322 and introduced into *Escherichia coli* to afford a transformant *E.coli* HB101 (pyrpbhu IFN- γ B) (C). The transformant (C) is subsequently cultivated in a liquid culture medium containing indoleacrylic acid, etc., and the culture fluid is filtered to provide microbial cells, which are then subjected to crushing under pressure and extraction treatment to afford an extract solution. The resultant



extract solution is subjected to treatment, such as ion exchange or a electrophoresis, to isolate the aimed interferon conjugate.

LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

. Copyright (C); 1998,2000 Japan Patent Office